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<b>FORM 1449*</b> <b>INFORMATION DISCLOSURE STATEMENT</b> <b>IN AN APPLICATION</b> <small>(Use several sheets if necessary)</small>			Docket Number: 510015-213	Application Number: 09/292,437
			Applicant: Schneewind et al.	
			Filing Date: April 15, 1999	Group Art Unit: 1645

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES      NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
~	1	G.P. Smith, "Filamentous Fusion Phage: Novel Expression Vectors that Display Cloned Antigens on the Virion Surface," <u>Science</u> 228:1315-1316 (1985)				
~	2	J.A. Javitch et al., "Mapping the Binding Site Crevice of the Dopamine D2 Receptor by the Substituted-Cysteine Accessibility Method," <u>Neuron</u> 14: 825-831 (1995)				
~	3	M.H. Akabas & A. Karlin, "Identification of Acetylcholine Receptor Channel-Lining Residues in the M1 Segment of the $\alpha$ -Subunit," <u>Biochemistry</u> 34: 12496-12500 (1995)				
~	4	D.J. Smith et al., "Simple Alkanethiol Groups for Temporary Blocking of Sulphydryl Groups of Enzymes," <u>Biochemistry</u> 14: 766-771 (1975)				
~	5	W.N. Valentine & D.E. Paglia, "Effect of Chemical Modification of Sulphydryl Groups of Human Erythrocyte Enzymes," <u>Am. J. Hematol.</u> 11: 111-124 (1981)				
~	6	R.P. Novick, "Genetic Systems in Staphylococci," <u>Meth. Enzymol.</u> 204: 587-636 (1991)				
~	7	O. Schneewind et al., "Sorting of Protein A to the Staphylococcal Cell Wall," <u>Cell</u> 70: 267-281 (1992)				
~	8	O. Schneewind et al., "Cell Wall Sorting Signals in Surface Proteins of Gram-Positive Bacteria," <u>EMBO J.</u> 12:4803-4811 (1993)				
~	9	E. Dufour et al., "Peptide Aldehydes and Nitriles as Transition State Analog Inhibitors of Cysteine Proteases," <u>Biochemistry</u> 34: 9136-9143 (1995)				
~	10	J. O. Westerik & R. Wolfenden, "Aldehydes as Inhibitors of Papain," <u>J. Biol. Chem.</u> 247: 8195-8197 (1972)				
~	11	L. Björck et al., "Bacterial Growth Blocked by a Synthetic Peptide Based on the Structure of a Human Proteinase Inhibitor," <u>Nature</u> 337: 385-386 (1989)				
~	12	P.A. Bartlett & C.K. Marlowe, "Phosphonamides as Transition-State Analogue Inhibitors of Thermolysin," <u>Biochemistry</u> 22: 4618-4624 (1983)				
~	13	R.F. Pratt, "Inhibition of a Class C $\beta$ -Lactamase by a Specific Phosphonate Monoester," <u>Science</u> 246: 917-919 (1989)				
~	14	J.V. Moroney et al., "The Distance Between Thiol Groups in the $\gamma$ Subunit of Coupling Factor 1 Influences the Proton Permeability of Thylakoid Membranes," <u>J. Bioenerget. Biomembr.</u> 14: 347-359 (1982)				
~	15	A.N. Chatterjee & J.T. Park, "Biosynthesis of Cell Wall Mucopeptide by a Particulate Fraction From <u>Staphylococcus Aureus</u> ," <u>Proc. Natl. Acad. Sci. USA</u> 51: 9-16 (1964)				
~	16	M. Matsuhashi et al., "Incorporation of Glycine into the Cell Wall Glycopeptide in <u>Staphylococcus Aureus</u> : Role of sRNA and Lipid Intermediates," <u>Proc. Natl. Acad. Sci. USA</u> 54: 587-594 (1965)				
~	17	D.B. Smith & K.S. Johnson, "Single-Step Purification of Polypeptides Expressed in <u>Escherichia coli</u> as Fusions with Glutathione S-Transferase," <u>Gene</u> 67: 31-40 (1988)				

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18	P.Z. Wang et al., "Nucleotide sequence of $\beta$ -lactamase regulatory genes from staphylococcal plasmid p1258," <u>Nucl. Acids Res.</u> 19:4000- (1991)
19	P. Recsei et al., "Cloning, Sequence, and Expression of the Lysostaphin Gene from <i>Staphylococcus simulans</i> ," <u>Proc. Natl. Acad. Sci. USA</u> 84:1127-1131 (1987)
20	K. Brocklehurst et al., "Cysteine Proteases," in <u>New Comprehensive Biochemistry, Volume 16: Hydrolytic Enzymes</u> (A. Neuberger & K. Brocklehurst, eds., Elsevier, New York, 1987), ch. 2, pp. 39-158
21	B.L.M. de Yonge et al., "Peptidoglycan Composition of a Highly Methicillin-resistant <i>Staphylococcus aureus</i> Strain," <u>J. Biol. Chem.</u> 267: 11248- (1992)
22	U. Kopp et al., "Staphylococcal Peptidoglycan Interpeptide Bridge Biosynthesis: A Novel Antistaphylococcal Target?" <u>Microb. Drug Resist.</u> 2: 29-41 (1996)
23	D. Boothby et al., "A Rapid, Quantitative, and Selective Estimation of Radioactively Labeled Peptidoglycan in Gram-Positive Bacteria," <u>Anal. Biochem.</u> 44: 645-653 (1971)
24	H. Ton-That et al., "Anchor Structure of Staphylococcal Surface Proteins," <u>J. Biol. Chem.</u> 272: 22285-22292 (1997)
25	K. Yokogawa et al., "Mutanolysin, Bacteriolytic Agent for Cariogenic Streptococci: Partial Purification and Properties," <u>Antimicrob. Agents Chemother.</u> 6: 156-165 (1974)
26	W.W. Navarre et al., "Multiple Enzymatic Activities of the Murein Hydrolase from Staphylococcal Phage $\phi$ 11," <u>J. Biol. Chem.</u> 274:15847-15855 (1999)
27	W.W. Navarre et al., "Anchor Structure of Staphylococcal Surface Proteins," <u>J. Biol. Chem.</u> 273: 29135-29142 (1998)
28	D.J. Smith et al., "Simple Alkanethiol Groups for Temporary Blocking of Sulphydryl Groups of Enzymes," <u>Biochemistry</u> 14: 766-771 (1975)
29	W. W. Navarre and O. Schneewind, "Surface Proteins of Gram-Positive Bacteria and Mechanisms of Their Targeting to the Cell Wall Envelope," <u>Microbiol. Mol. Biol. Rev.</u> 63: 174-229 (1999)
30	M.K. Yeung et al., "Identification of a Gene Involved in Assembly of <i>Actinomyces naeslundii</i> T14V Type 2 Fimbriae," <u>J. Bacteriol.</u> 66: 1482-1491 (1998)
31	M. K. Yeung and J. O. Cisar, "Sequence Homology between the Subunits of Two Immunologically and Functionally Distinct Types of Fimbriae of <i>Actinomyces</i> spp.," <u>J. Bacteriol.</u> 172: 2462-2468 (1990)
32	D.B. Oliver et al., "Azide-resistant mutants of <i>Escherichia coli</i> alter the SecA protein, an azide-sensitive component of the protein export machinery," <u>Proc. Natl. Acad. Sci. USA</u> 87: 8227-8231 (1990)
33	I. van de Rijn and V.A. Fischetti, "Immunological Analysis of Intact M Protein Secreted From Cell Wall-Less Streptococci," <u>Infect. Immun.</u> 32: 86-91 (1981)
34	J. Movitz, "Formation of Extracellular Protein A by <i>Staphylococcus aureus</i> ," <u>Eur. J. Biochem.</u> 68: 291-299 (1976)
35	P. Lawrence and J. L. Strominger, "Biosynthesis of the Peptidoglycan of Bacterial Cell Walls," <u>J. Biol. Chem.</u> 245: 3653-3659 (1970)
36	J.W. Kozarich et al., "Hydroxylaminolysis of Penicillin Binding Components Is Enzymatically Catalyzed," <u>J. Biol. Chem.</u> 252: 7525-7529 (1977)
37	G.T. Wang et al., <u>Tetrahedron Lett.</u> 31: 6493-6496 (1990)
38	E.D. Matayoshi et al., "Novel Fluorogenic Substrates for Assaying retroviral Proteases by Resonance Energy Transfer," <u>Science</u> 247: 954-958 (1989)
39	R. Pathak et al., "Sulphydryl Modification of the Yeast Wbp1p Inhibits Oligosaccharyl Transferase Activity," <u>Biochemistry</u> 34:

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<i>cont</i>		4179-4185 (1995)
<i>~</i>	40	W.W. Navarre & O. Schneewind, "Proteolytic Cleavage and Cell Wall Anchoring at the LPXTG Motif of Surface Proteins in Gram-Positive Bacteria," <u>Mol. Microbiol.</u> 14: 115-121 (1994)
<i>~</i>	41	C.A. Schindler & V.T. Schuhardt, "Lysostaphin: A New Bacteriolytic Agent for the <i>Staphylococcus</i> ," <u>Proc. Natl. Acad. Sci. USA</u> 51: 414-421 (1964)
<i>~</i>	42	O. Schneewind et al., "Structure of the Cell Wall Anchor of Surface Proteins in <i>Staphylococcus aureus</i> ," <u>Science</u> 268: 103-106 (1995)
<i>~</i>	43	O. Schneewind et al., "Cell Wall Sorting Signals in Surface Protein of Gram-Negative Bacteria," <u>EMBO J.</u> 12: 4803-4811 (1993)
<i>~</i>	44	I. van de Rijn & R.E. Kessler, "Growth Characteristics of Group A Streptococci in a New Chemically Defined Medium," <u>Infect. Immun.</u> 27: 444-448 (1980)
<i>~</i>	45	W.W. Navarre et al., "Cell Wall Sorting of Lipoproteins in <i>Staphylococcus aureus</i> ," <u>J. Bacteriol.</u> 178: 441-446 (1996)
<i>~</i>	46	S.R. Talay et al., "Domain Structure and Conserved Epitopes of Sfb Protein, the Fibronectin-Binding Adhesin of <i>Streptococcus pyogenes</i> ," <u>Mol. Microbiol.</u> 13: 531-539 (1994)
<i>~</i>	47	M.P. Schreuder et al., "Targeting of a Heterologous Protein to the Cell Wall of <i>Saccharomyces cerevisiae</i> ," <u>Yeast</u> 9: 399-409 (1993)
<i>~</i>	48	J.A. Ogier et al., "A 40-Kilodalton Cell Wall Protein-Coding Sequence Upstream of the sr Gene of <i>Streptococcus mutans</i> ," <u>Infect. Immun.</u> 59: 1620-1626 (1991)
<i>~</i>	49	A. Rambukkana et al., "Identification and Characterization of Epitopes Shared Between the Mycobacterial 65-Kilodalton Heat Shock Protein and the Actively Secreted Antigen 85 Complex: Their In Situ Expression on the Cell Wall Surface of <i>Mycobacterium leprae</i> ," <u>Infect. Immun.</u> 11: 4517-4527 (1992)

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